



FDCIO223

Transponder

addressable (FDnet/C-NET)

Sinteso™
Cerberus® PRO



- 2 monitored in-/outputs selectable as detector line (collective Siemens/Cerberus PRO, Synova 600 or conventional Synova 300), as contact input, control output or as control output with acknowledgement
- LED display of input and output status, fault, test, etc.
- Control output for equipment 24 VDC, max. 2 A
- Two-wire installation for all types of cable
- Pluggable connection terminals
- Power supply 24 VDC external (detection lines galvanically isolated)
- Microprocessor-controlled signal evaluation
- Communication via FDnet/C-NET (individual addressing)
- Applicable in dry, dusty and humid areas
- Different mounting possibilities

- **Environmental**

- ecological processing
- recyclable materials
- electronic und synthetic materials can be easily separated

- **Characteristics**

- transparent housing for good visibility of the indicators
- protected electronics
- integrated line separator
- easy installation with spring-loaded catch
- applicable in dry areas
- use auxiliary housing for application in dust and humid/wet areas

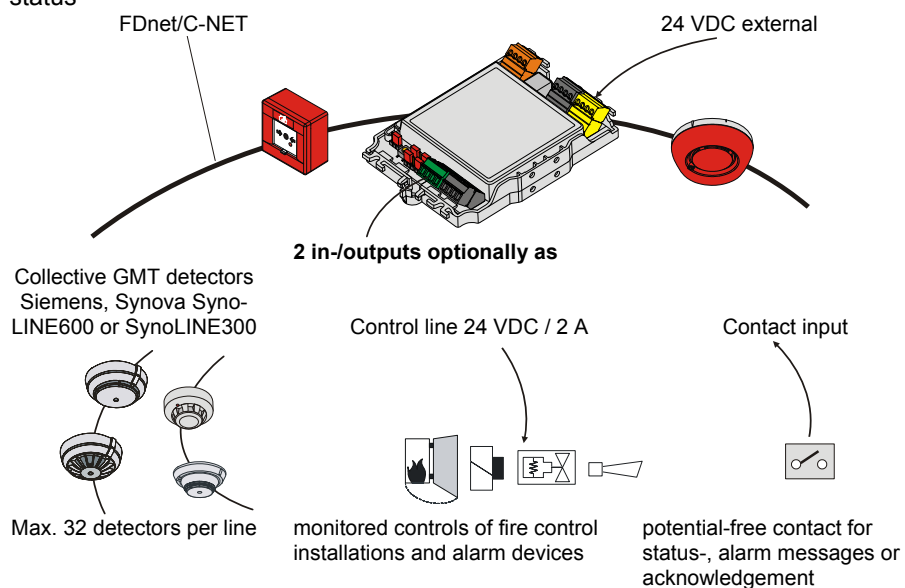
FDCIO223 Transponder

- **Function**

- The 2 in-/outputs can be parameterized autonomously in each case as
 - detector line collective
 - contact input
 - control output
 - control output and input as acknowledgement with selectable monitoring time frame
- Monitored of the in-/outputs as
 - detector line in quiescent condition, alarm, open line, short circuit, fault and earth fault
 - contact input in quiescent condition, activate, open line, short circuit, fault (termination resistors) and earth fault
 - control output in quiescent condition, open line, short circuit and earth fault
- Status indication by LED
- Control output with selectable equipments monitoring equal polarity or by reversed polarity (e.g. alarm devices)

- **Application**

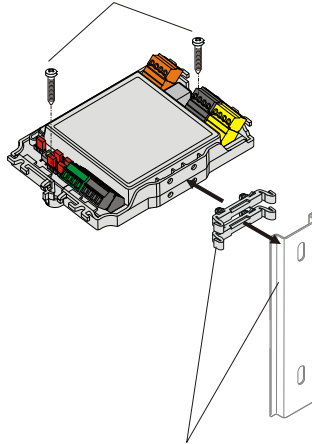
- for connection of collective fire detectors (GMT/conventional line, GMT/conventional line with shunt-Zener-diode barrier (SB3) for explosion-hazard areas)
- for monitored controls of e.g. smoke dampers, alarm devices, door magnets and extinguishing activation devices (adhere to country-specific instructions)
- monitored signal input for status and alarm messages or for acknowledging technical status



Installation

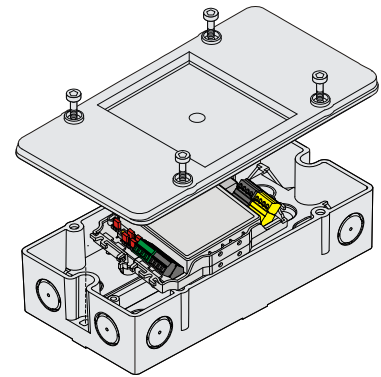
- screw directly onto plane surface area
- mounting (series mounting) top hat rail TS35
- surface or recess-mounted cable ducts
- in housing FDCH221 with cover, seal and screws

Installation directly in switching cabinet
/ control unit



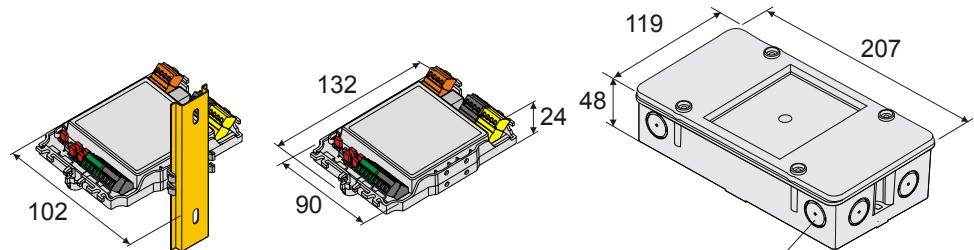
Installation in range with enclosed mounting
feet at top hat rail TS35

Mounting in separate housing FDCH221



For shielding cables use connection
terminals DBZ1190-AB

Dimensions



Breakout for screwed cable gland
and back nut M20

Technical data

 Siemens Schweiz AG, CH-6301 Zug Date: see manufacturing date on the product 0786-CPD-20430 EN54-17, EN54-18 Transponder; Safety in case of fire FDCIO223 Technical data see Doc. 009122	Operating voltage FDnet/C-NET	12... 33 VDC
	External power supply	
	– Input voltage	18... 32 VDC
	In-/outputs as	
	– Collective detector line	GMT Siemens/Cerberus PRO, Synova300C or similar
	– Collective line factor KLK	32
	– End of line	20 V transzorb diode or EOL22(Ex)
	– Control output	24 VDC $\pm 5\%$ / 2 A (fuse on site)
	– Contact input	
	– End of line combinations	3.3k Ω /680 Ω , 2.7k Ω /560 Ω , 3.3k Ω
	Operating temperature	-25... +60 °C
	Storage temperature	-30... +65 °C
	Humidity	$\leq 95\%$ rel.
	Communication protocol	FDnet/C-NET
	Connectable terminal blocks	0.2... 1.5 mm ² (Auxiliary terminal 2,5 mm ²)
	Color	
	– Housing	white, ~RAL 9010
	– Cover	transparent matt
	– Aux. housing FDCH221	white, ~RAL 9010
	Protection category EN60529 / IEC529	IP30
	– with aux. housing FDCH221	IP65
	Standards	CEA GEI I-084, EN54-17, EN54-18
	Approvals	
	– VdS	G206054
	– LPCB	126aq/01
	QS standards	Siemens Standard SN 36350
	System compatibility	
	– FDnet	FS20, AlgoRex, SIGMASYS
	– C-NET	FS720

Details for ordering

	Type	Part no	Designation	Weight
	FDCIO223	S24218-B102-A1	Transponder incl. 2 pcs. transzorb diode 20 V, 4 sets termination resistors, 2 mounting feeds	0.164 kg
	FDCH221	S54312-F3-A1	Housing with cover, seal and screws	0.280 kg
	–	A5Q00004478	Metal screwed cable gland M20 x 1.5	0.039 kg
	–	A5Q00004479	Back nut M20	0.006 kg
	DBZ1190-AB	BPZ:4942340001	Connection terminal 1.0... 2.5 mm ² (3-pole)	0.002 kg
Spare part	FDCM291	A5Q00003855	Mounting feeds (25 pcs.)	0.060 kg

Details see equipment overview 008164 (Sinteso), A6V10225323 (Cerberus PRO)

Details about system compatibility see List of compatibility 008331

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Document no. **009168_h_en_--**
Edition 04.2009

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Manual FD20 / FD720

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